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(54) Title: MEDICAL PAD, AND METHOD FOR MAKING AND USING

(57) Abstract: A germicidal absorptive material for use in surgical packings, wound bandages, sanitary tampons and bed sore prevention and/or treatment uses is provided by a foam-like matrix of hydrophilic polyurethane polymer to which application-specific loads of a germicidal disinfectant dye have been made. Polyurethane polymer of various densities and thicknesses exhibits an exceptional ability to absorb different levels of a number of disinfectant dyes, both basic and acidic, such as gentian violet and methylene blue, respectively. The relationship between dye-load and application-specific uses permits a totally-bound gentian violet pad to be used as a conventional bandage or pad on a surface wound with the capability of preventing the incursion of external pathogens from entering the wound through the pad, where the pathogens are killed by the bound-dye. The wound exudate is absorbed safely by the pad, where wound-originating pathogens are also killed. When the loaded dye's concentration is saturated by exceeding the bound-dye limit, the limited free-dye is available to be delivered to the wound, particularly deep wounds, to rapidly kill pathogens in the wound. The free dye delivery pad can then be replaced by the bound-dye pad to absorb the wound exudate.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 31/00, 35/00; A61L 15/16

US CL : 604/286, 304

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 604/286, 304

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3,635,652 A (STRECK) 18 January 1972 (18.01.1972), see entire document.	1-10
Y	US 3,961,629 A (RICHTER et al.) 08 June 1976, (08.05.1976), see entire document.	1-10
Y	US 5,811,471 A (SHANBROM) 22 September 1998 (22.09.1998), see entire document, especially abstract, column 2, line 40 to column 3, line 2.	1-10
Y,P	US 2003/0149106 A1 (MOSBEY et al.) 07 August 2003 (07.08.2003), see entire document, especially page 1, paragraph 1, page 7, paragraphs 70-75, page 8, paragraph 77 to page 9, paragraph 83.	1-10

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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- "&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

WEST 2.2 Search terms, gentian violet, glycerin, pad or bandage or gauze or sponge or surgical, polyurethane, antibacterial or antimicrobial or antibiotic, brilliant green malachite green, methyl blue, methylene blue, acridine orange, acridine yellow, quinacrine, trypan blue, trypan red.